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Delivered Date: 07/13/2010 02:22 PM EDT

Subject: Re: Cad Cells - quick bullets

Kate - let me know if this is what Curt was looking for or not:

CAD cells in New Bedford Harbor:

- CAD cells are carefully engineered excavations into (or existing depressions in) the harbor floor for the purpose of permanently disposing and isolating contaminated sediments. Once the placed sediments have been allowed time (e.g., 6 months or more) to consolidate, a cap of clean sandy material is typically placed on top of the placed sediments to ensure long term isolation. Even with a cap, final CAD cell elevations are typically lower than the surrounding harbor bottom (i.e., bowl-shaped rather than speed bump).

- CAD cells have become an increasingly used approach for disposing contaminated sediments from shipping channels. They have been used in recent years for this purpose in Boston, Providence, New London and New Bedford.

- 3 CAD cells have been used successfully to date for disposal of navigational dredge material in New Bedford Harbor. The location for siting these CAD cells was determined as part of a state evaluation of long term dredge material management needs for the harbor. Silt curtains and oil booms are placed around the perimeter of the CAD cell to contain placed sediments within the CAD cell.

- the clean "bottom-of-CAD" material excavated to create the 2005 navigational CAD cell was used to cap PCB-contaminated sediments near the Cornell-Dubilier mill as part of EPA's pilot underwater cap study (saving roughly $15 million in Superfund cleanup costs).

- as part of the Superfund harbor cleanup, EPA proposed in June 2010 to include a CAD cell in the lower harbor for disposal of approximately 300,000 cy of sediments with PCB levels above Superfund action levels. Superfund sediments from the lower harbor and lower upper harbor are proposed for this Superfund CAD cell; these are sediments with relatively lower-level PCB levels compared to remaining Superfund sediments in the upper harbor.

- EPA has used water quality monitoring surveys (performed during the 2009 navigational CAD cell operations) and computer modeling to demonstrate that the proposed Superfund CAD cell would be protective in both the short and long term. No aquatic toxicity was detected inside or outside of the CAD cell, and no turbidity plumes were found outside of the CAD cell during the 2009 field surveys.

- a Superfund CAD cell would significantly decrease the estimated time and cost to complete the Superfund cleanup.

- the formal comment period for this proposed modification to the cleanup plan is still open.

Kate Renahan---07/13/2010 01:29:48 PM---Dave, Curt is looking for some short bullets on CAD cell things in New Bedford -

From: Kate Renahan/R1/USEPA/US
To: Dave Dickerson/R1/USEPA/US@EPA
Date: 07/13/2010 01:29 PM
Subject: Cad Cells - quick bullets

Dave,

Curt is looking for some short bullets on CAD cell things in New Bedford -
Anything that is current -

Are you able to send some things by 3ish today?

Sorry its last minute

Please consider the environment before printing this message

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